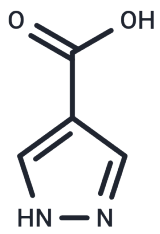
Data Sheet (Cat.No.T35949)

TargetMol

4-Carboxypyrazole

Chemical Properties



CAS No. : 37718-11-9

Formula: C4H4N2O2

Molecular Weight: 112.09

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	4-Carboxypyrazole is a metabolite of fomepizole and can be used in the synthesis of ALKBH1 inhibitors as well as in gastric cancer research.
Targets(IC50)	Drug Metabolite

Solubility Information

Solubility	DMSO: 80 mg/mL (713.71 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	8.9214 mL	44.607 mL	89.214 mL
5 mM	1.7843 mL	8.9214 mL	17.8428 mL
10 mM	0.8921 mL	4.4607 mL	8.9214 mL
50 mM	0.1784 mL	0.8921 mL	1.7843 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

McMartin KE, et al. Kinetics and metabolism of fomepizole in healthy humans. Clin Toxicol (Phila). 2012 Jun;50(5):375-83.

Li F, et al. Structural Optimization and Structure-Activity Relationship of 1H-Pyrazole-4-carboxylic Acid Derivatives as DNA 6mA Demethylase ALKBH1 Inhibitors and Their Antigastric Cancer Activity. J Med Chem. 2024 Sep 12;67(17):15456-15475.

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